

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/636,826
 DATE: 12/09/2000
 TIME: 15:18:38

Input Set : A:\Pto.amc
 Output Set: N:\CRF3\12092000\I636826.raw

SEQUENCE LISTING

C--> 3 (1) GENERAL INFORMATION:

4 (i) APPLICANT: DUWENIG, Elke; RAUSCH, Thomas
 5 (ii) TITLE OF INVENTION: Plant gene expression under the control
 6 of constitutive plant V-ATPase promoters
 7 (iii) NUMBER OF SEQUENCES: 3
 8 (iv) CORRESPONDENCE ADDRESS:
 9 (A) ADDRESSEE: Keil & Weinkauff
 10 (B) STREET: 1101 Connecticut Avenue
 11 (C) CTTY: Washington
 12 (D) STATE: D.C.
 13 (E) COUNTRY: USA
 14 (F) ZIP: 20036
 15 (v) COMPUTER READABLE FORM:
 16 (A) MEDIUM TYPE: Diskette, 3.5 inch, 1.44 Mb storage
 17 (B) COMPUTER: IBM AT-compatible, Pentium processor
 18 (C) OPERATING SYSTEM: Windows 95
 19 (D) SOFTWARE: WordPerfect version 6.1
 20 (vi) CURRENT APPLICATION DATA:

C--> 21 (A) APPLICATION NUMBER: US/09/636,826

C--> 22 (B) FILING DATE: 14-Aug-2000

23 (C) CLASSIFICATION:

25 (2) INFORMATION FOR SEQ ID NO: 1:

26 (i) SEQUENCE CHARACTERISTICS:
 27 (A) LENGTH: 2090 nucleic acids
 28 (B) TYPE: nucleic acid
 29 (C) STRANDEDNESS: single
 30 (D) TOPOLOGY: linear

31 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

33	GATATCACAC	ATTCGTCCAT	CGACGATTG	CGAACTTTCA	AATAGGTACG	TAAATCTTTT	60
35	AATCTTCAAA	GTATTTTCAC	ATTAGTCGAC	TATTATGTAG	TTGAAAAAAT	GGAGATAATA	120
37	GGAATTAGTT	GAAAAGGGTG	TTTATATAAT	TAGACTTAAA	TTTGATTTCAT	TTTCATATAT	180
39	CTGAAACAAA	GGTATGTATG	AAATTTGATT	CATTTATGAC	ACTCATGAAA	AAGTTAACCA	240
41	TTTAGTTCTT	TTTTTTAAAA	TTCCAATATA	AATTTTGGCC	CAAAACTTTT	GCAAAATATC	300
43	CATGTTTCGA	AATAAATTTT	GAAAAACAAA	ACAATATCAA	ACCTTTTTCG	GAACAACTTT	360
45	TACAAAAATC	CATTTTCAGA	AAAAAAATTT	TACATTAAT	TGCGAAATCA	AATTGTGTAT	420
47	GAAAAATTTA	AAATTTCTCT	TCACCTATAA	TTGAAACTCA	AAGTGTTAAA	ATTTAGAAAA	480
49	GGAGAAAAAT	AAAAAATGAC	CATTTTCATG	GAAATCAAAT	TGTGTATGAA	AAACTTAAAA	540
51	TTTTATTTTA	AATATAATTG	AAATTCAAAG	TGTTAAAAAT	TAGAAAAGGA	GAAAAATTA	600
53	AATGACCATT	TCATTCAAAA	TCAGATTGFG	TATGAAAAAT	TTAAATTTT	ATTTCAAATA	660
55	TAATTGAAAC	TCAAAGTGTG	AACATTTAGA	AAAGGAGAAA	AATTAATAAT	ATGAAAAATTT	720
57	GTAAACATC	AATTTCGTGA	ATCAGAATTT	AGAACTTAGA	CAAGGAAAAA	AAACTGAATT	780
59	GTCTTATACT	TTTCGGTTAC	AATTTTGGGA	TCATAAAGAA	ATTACTGAAA	TCCATATCAA	840
61	AAACTATTAT	AAATTACAAA	AATGAATAAA	ACCAAAAAAA	GAAGAACATG	ACGATATTTC	900
63	GTAAGAACA	TCATACTGAT	TATAAAGAA	CATGCGCATA	TTAGAATTGA	GAAACAAAAA	960
65	ACTATTCAAA	ATCACAAAAA	TGCATAACAA	CATACAAAGA	ACATGAAAGA	ATCTTATTCA	1020
67	CAAAATGGAG	GTGAACCTAA	ATACTAATTT	GCATTTTCAG	TTTATTTACT	ACTTAGTATT	1080

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69 AGGCCTAAAA ATATCATCGC ACGCATCGCG TGCACAAAAG ACTAGTGTTA AGTATCACAA 1140
71 GTCACAAACT CACAACATCAT TTTCATTTAG GCTCCATTTG GTAGGGCGTA AAACGTTTTC 1200
73 CCGGAACACT ATTTTCTCTC ATTTTCTAGT TTACATGTGT TGGTTGACAA AAGAGTGTAA 1260
75 AACCGTTTTC CCTTGGGGTA AAATTAATCT TCCAATGATC GAAAACCAAT TTCTTTTCAA 1320
77 AATGAAGGGA AAACGTGTTT CCTTATCTCT CTGTGTACAC TTTTCTCACT ACCTCCTTAC 1380
79 TTTCCCTTTT ATTTTACTTT CATTTCAICA TTTTCTTTTC ATGAAACCAA ACAACGGAAA 1440
81 ACTAATTTTG GAATGTGTGT TCCCATGTGA AATTGTTTTC CATGAAATC ATTTTACACT 1500
83 GAAATGTGTT TACACCTTAC CAAACAGAGC ATTCTGTGTC CATGAAATGCA TGACCGATTT 1560
85 CAAATTCGAA ACTGGTGTGT ACCGTTTTCT AATTGGTTFY GAGTTCACAA CCAAGTATTC 1620
87 AACTATGTTG CTCACCTTAA AGATGAATAT GGTAAACCTT TGAGGTGGGC TTTGGCTAAA 1680
89 AAAAGTCCCA CCAAGCCCCA ATTCTAGGCT CCAAAAACCA CGAAATTTCC TGGTACTATT 1740
91 CCAAAACAAA AACAAACAC TCCATGATCA ACCAGAAAAA ATAAACATA TTTTGTGTTT 1800
93 CTCCCAATTT TTCAATTTAA TTTATCACGG GAAAGTACAC AATTAATCAA TCAAGGGTAA 1860
95 AAAAAATAAA ATAAAAAGAA AAGATAAGTA TAAACAAAAG AATTTGTCTT TCTCTACATC 1920
97 CTCATATTTT ATCCACGCTC TCTTCTTCT CTCTCTCAT CTCTTTTTC AATTTCCAGA 1980
99 TCGGATCAAG CAATTCATCG AACACCTTCC GATCATCACC ATCAAAAAAA ATGTCAACAG 2040
101 TCTTTAACGG CGATGAAACG GCGCGTTCT TCGGCTTTCT GGGTGTGTCT 2090

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C--> 105 (2) INFORMATION FOR SEQ ID NO: 2:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 1153 nucleic acids

(B) TYPE: nucleic acid

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

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112 GGGTGGGGGT GAAGTGGGGT CTGCAGGGGT GGGTGGGGGT GGCTGGTGGC AGGTATTGGT 60
114 AGTGGTGCTA GGTGGTGATT ATGGAGGAAG AAGGGAAATA GAAGTGTTA ACACCGAAAA 120
116 GTGAGATTAA GTTTTATCTT GCAAAAAATA TTTATTTTTT GGTTTGTTTT CACAAAGAAAT 180
118 GCTTTATTA GGTTTTTTTT TGCAAAAAAC TGAACTTTTA AAAGGTTTTT TTTGATAAAT 240
120 TTTCCTAATA TTAATAAATG AAAATTTTTT TAACATGGGA GATAGCCTGG ACCTATAACT 300
122 AGTTGTTATA ACTTATAAGA AGAGAATTTT GGGCAACTAT GCGGAAATA GGGGAAATTT 360
124 TGGAAAAAAT AAGTAAAAAG TTTTAGGTGT AAACCTGCTT GTTATAAGTT ATAAACTTGA 420
126 ATTTGTTCTA TTGATAGTGT TGGTTAATAA TGTGACAAC AAATCGAACA TAAAGGTTTA 480
128 GGACCCCTTC GACATCATTT AGAGTTAGAG GTGGGCATGA GCCGGGCCAG TTTGCGTGCT 540
130 GGAACGGCCA GTTCGCGGGC TGGTACGGCC AGGCACGAGC CCGATCAAGG CACGACCCGG 600
132 CTGTGTTGTC GTTACGTGGA CCGTGGGCCC ATCACGGTCA AAAAAAATA TTTTAGGCTC 660
134 GCACCCAGCAG GAGCCCGCGT AGGCCAGCCC GCGGGCTGAA TGTTCCCTTC CTTTGTGTTT 720
136 TAGCCTAATA CTGTCAATAA TACAAAAAGA TAACATAAAA CACAGGCTAG GCCCTCAATA 780
138 GGCACGAGCC CGTGGAAAAA ATCCGAAAT TCCAAGCCTA GCTAGTTACT CACAAGCTCA 840
140 GACCCGATTC GTCATTTTTT CAAACCCGTG GCGCGAGCCG GTCAACAGGC TCGGCCCGGC 900
142 TCATGTCCAG GTGACAGGTC TACTGAGAGT TATGAGTTGT TTCCCATGG GCTACTTGAC 960
144 TACAAACCTT CCATAGTTCC ATGACACTTC CATCTGAGCC CATGAGATAA AATTAAGGAA 1020
146 TACAAACACA AAATCAACA ACCAACCCGA AATATCGATC GGACTTGTTA GCACGTGTTA 1080
148 TGTGGGTCC CATCCAAGAA ACTTTCTCTC TCCTCTCTC TCATAAAAAA ACCTTCTCAC 1140
150 TGATCCCATC CAG 1153

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C--> 153 (2) INFORMATION FOR SEQ ID NO: 3:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 1073 ??? acids

(B) TYPE: nucleic acid

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

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161	GAATTCCTCTG	CTCTGGATTC	GACATCAAAA	TTTCACCCGG	GTTACTATTC	AAACAGACTG	60
163	CTCAAAATCTC	ATTTCTTCTC	TTCTTCTTAT	TTTCGACGGT	CCTCGCTCTA	TCTACTGGTC	120
165	TGTATGCCAG	ATTATGAGTC	TAACAGGAAA	TCTTCACTGG	TGTTTTCCTG	TTAAAGTAAA	180
167	TTGTCAAAAA	GTTCAAAAGG	CACAAAATGT	GGCTAAGCTA	TGTGCTCAAA	TTTGTGTTT	240
169	ACTACTTGAT	TTGTTTCTT	TCTCTTTATG	CCTGTTTTTT	CCCCCTTTGT	AAAAAAAAGA	300
171	TACAAGTATA	GATGAAGGGA	TTCTTTATAT	TGGCCCCATG	TGTTCTTAG	ATAATTACAT	360
173	TGTACCTCA	ATTCTTCATC	TTCTTTGAAG	TTCTACGTAG	TACCATTTGT	GTTGCATAAG	420
175	CAAAATGATA	TCATACTTTC	ATATCTTAGT	TAATGTACAT	CGTCACTTGT	GCTTAACATG	480
177	TCATAAACTA	ATTCTCTTGG	TTTAATACTG	GTTACATTAA	CFAAACTTTT	TATFCTTAAA	540
179	TATTTAAGAA	GTGTGCAGTA	AATTAAGTTC	CTTCCAAATC	CTCAATAAGA	CATFATACTT	600
181	AGAAAACCTC	TATAAAGTTA	CTTATCAACT	TACAGATAAC	GACCAAAGAA	TCATCACCAA	660
183	AACAGTTATC	GAACCAATA	GAAGCTGCAT	AGCTTTTGAA	AAAGGTGAAG	GTACCAATATA	720
185	AATCTCCAAC	AAATATAGTG	TATCTACTCC	CAAAAGCTAT	CCTAGTAATA	TCCCTATCTC	780
187	AAAAACATAT	CTTTTATCAA	CTTTTTCCTA	ACACAACTC	AATTGTATAA	AACACAAAGG	840
189	AAACGTTGTT	TAACCAATCA	CTATATTTAC	ATTAACCATA	TTTTTAATTT	AGTTAAACCT	900
191	CTCAAGTCTC	ACTACATTC	TAAAAAAGT	TGGAGATAGA	GTCATCATAA	TTCATAGAGA	960
193	AGGAATTGAC	AACATCTAAT	AAGAACGAAT	TACGAACCTG	GCAAAATCAC	AGACGAAACA	1020
195	TAGCAAAACT	TAACCTTGCA	AATCTCAATC	AGATTTAAAT	AATCCTTTTG	CTG	1073

RECEIVED

DEC 13 2000

TECH CENTER 1600/2900

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/636,826

DATE: 12/09/2000

TIME: 15:18:39

Input Set : A:\Pto.amc

Output Set: N:\CRF3\12092000\I636826.raw

L:3 M:220 C: Keyword misspelled or invalid format, [(1) GENERAL INFORMATION:]
 L:21 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
 L:22 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
 L:105 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
 L:153 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]